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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/706,624	11/12/2003	Akira Shimizu	ASMJP.104DV1	7986	
20995	7590 10/19/2004	•	EXAMINER		
KNOBBE MARTENS OLSON & BEAR LLP			PASCHALL, MARK H		
2040 MAIN S FOURTEENT			ART UNIT	PAPER NUMBER	
IRVINE, CA				3742	

DATE MAILED: 10/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	1/1/1				
	10/706,624	SHIMIZU ET AL.	$V^{U}$				
Office Action Summary	Examiner	Art Unit					
	Mark H Paschall	3742					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence add	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed /s will be considered timely n the mailing date of this co D (35 U.S.C. § 133).	mmunication.				
Status							
1) Responsive to communication(s) filed on	<u></u> .						
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	<del>-</del>						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-17 is/are pending in the application.	Claim(s) <u>1-17</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-17</u> is/are rejected.							
7) Claim(s) is/are objected to.	r election requirement						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action of form P i	O-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:			٠				
<ol> <li>Certified copies of the priority document</li> </ol>							
2. Certified copies of the priority document							
3. Copies of the certified copies of the prio		red in this National	Stage				
application from the International Burea		red					
* See the attached detailed Office action for a list	of the certified copies flot receiv	ou.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summar Paper No(s)/Mail [						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 11-12-03.</li> </ul>	and the same of the same of		O-152)				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over the disclosed prior art on pages 1-2 in the instant specification, in view of Yamaazaki et al. the disclosed prior art recognizes that the claimed contaminants can be heated insitu in a plasma chamber but the heating takes, "a significant amount of time". See jBackground of th Invention, last two paragraphs. The patent to Yamazaki et al is applied for teaching that it is conventional to heat wafers using microwave s, in a non plasma producing atmosphere, and this heating is efficient and direct. In view of this teaching it qousd have been obvious to modify the disclosied prior art to use microwaves in lieu of conventional heaters, since such modification would produce a faster and more efficient heating of wafers. Note that the materials and contaminants set forth in the claims are taught in the disclosed prior art in the instant specification.

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## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rosenwaig et al, Tsuchihashi et al and Frankel et al are cited for disclosing microwave heating and drying of wafers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark H Paschall whose telephone number is 703 308-1642. The examiner can normally be reached on 7am - 3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 703 308-2634. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MH Paschall Primary Examiner Art Unit 3742